(c) whether Government have created adequate infrastructure like laboratories, libraries, classrooms, teachers, etc. to achieve the target; and

(d) if so, the details thereof?

THE MINISTER OF HUMAN RESOURCE DEVELOPMENT (SHRI ARJUN SINGH): (a) to (d) Subject to finalization of the Eleventh Plan, the Gross Enrolment Ratio (GER) in higher education is proposed to be increased to 15% by 2011-2012, from the present GER of about 10%.

The existing total enrolment of about 128 lakh students in higher education (2006-07) is proposed to be increased to 212 lakh students by the year 2011-12.

Public investments are expected to be enhanced during Eleventh Five Year Plan, both for establishing new colleges and new universities as well as for strengthening the existing institutions. Central Universities, State Universities and Colleges will be supported for creating adequate infrastructure in order to address the concerns of quality, access and equity in higher education.

An important strategy of expansion consists of development of institutional capacity in all institutions with special focus on backward, rural, remote areas and small towns. Resources permitting, Government is considering to establish 30 new Central Universities and to provide some assistance to the State Governments, to incentivise them to establish at least one college in each district which has a low GER, during the Eleventh Plan period.

Expenditure on renewable energy

*23. SHRI THENNALA G. BALAKRISHNA PILLAI: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) the total amount spent for the production and setting-up units for renewable energy during the last five years, State-wise; and

(b) the total production of renewable energy, State-wise?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR): (a) An expenditure of Rs. 1718.69 crore has been incurred towards development and deployment of new and renewable energy systems/devices in different States under various programmes of the Ministry during the last five years, *i.e.*, 2002-07, corresponding to the Tenth Plan period. State-wise details of the expenditure are given in Statement-I (*See* below). This expenditure has leveraged an estimated investment of around Rs. 35,000 crore, mostly through private sector.

(b) State-wise details of achievements under the various renewable energy programmes during the aforesaid period are given in Statement-II.

Statement-I

Expenditure incurred on development and deployment of New and Renewable Energy systems/devices under various programmes during 2002-7

All figures in Rupees in crore

Sl. No.	States/UT	Biogas Plants	Biomass Gasifiers	Biomass power	Waste to Energy Plants	Solar Photo-voltacic	SHP	Wind power	Small Wind Energy Systems	Solar Cookers	VESP	Remote Village Electrifi-cation	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	Andhra Pradesh	25.23	0.33	1.02	10.43	2.71	7.23	4.20	0.01	0.14	0.30	1.16	52.75
2.	Arunachal Pradesh	1.77	1.28	0.08		3.87	37.14			0.18		11.08	55.40
3.	Assam	–	0.03	0.05		4.07	0.03				1.76	4.90	10.85
4.	Bihar	–	0.16	0.06		0.32	6.97		0.01				7.52
5.	Chhattisgarh	6.23	0.07			2.12	1.84			0.25	1.01	15.74	27.26
6.	Goa	–				0.32			1.15			0.01	1.48
7.	Gujarat	11.84	1.24	0.35	0.04	4.21			1.07	0.43	0.27	0.54	19.99
8.	Haryana	1.17	0.33	0.07		9.13		0.02		0.62		2.08	13.41
9.	Himachal Pradesh	0.60				8.02	28.17			0.02		2.52	39.32
10.	Jammu & Kashmir	–	0.15			6.61	16.82					11.21	34.79
11.	Jharkhand	0.03	0.10	0.03	0.10	2.52	0.05				0.09	24.52	27.43
12.	Karnataka	12.59	1.66	0.95		6.71	15.58	8.40	0.09			0.49	46.47
13.	Kerala	3.18	0.06			3.52	1.65					0.02	8.42
14.	Madhya Pradesh	13.95	1.42	0.04		2.26	0.99				1.86	3.14	23.66
15.	Maharashtra	12.07	0.81	1.83	0.10	2.83	3.88	2.90	5.21	0.10	0.66	14.10	44.50
16.	Manipur	0.75				3.05	0.07		0.45			18.09	22.41

1	2	3	4	5	6	7	8	9	10	11	12	13	14
17.	Meghalaya	1.06	0.30	0.05		4.99	5.48			0.04		6.34	18.26
18.	Mizoram	0.99	0.68			5.03	23.99			0.05		1.45	32.19
19.	Nagaland	0.36	1.22			2.02	4.64					0.17	8.41
20.	Orissa	13.92	0.09			0.83					1.39	5.45	21.68
21.	Punjab	1.20		2.04	0.23	1.46	6.80					0.00	11.73
22.	Rajasthan	0.15	0.45	0.66		12.53			0.01		0.64	6.59	21.03
23.	Sikkim	1.64		0.02		4.32	22.83			0.10		0.09	28.99
24.	Tamil Nadu	1.57	4.82	1.01	7.40	4.84	0.08		0.02	0.07	0.45	3.67	23.94
25.	Tripura	0.86	1.29	0.01	0.00	6.43						21.56	30.15
26.	Uttar Pradesh	4.26	0.59	0.86	8.31	12.58	1.89			0.08		13.43	42.00
27.	Uttaranchal	0.57	0.10		0.10	19.72	9.28			0.11	0.42	16.09	46.39
28.	West Bengal	23.15	1.99	0.64		12.53	5.64	3.41	0.32		0.69	51.38	99.74
29.	Andaman & Nicobar					3.26	4.50						7.76
30.	Chandigarh			0.03		0.24							0.27
31.	Dadar & Nagar Haveli												0.00
32.	Daman & Diu												0.00
33.	Delhi		0.02	0.52	0.88								1.43
34.	Lakshadweep												0.00
35.	Pondicherry		0.08			0.12							0.20
36.	Others	44.38		51.95	3.87	11.14	1.13	24.23	0.29			11.56	148.54
	TOTAL:	183.52	19.27	62.25	31.47	164.30	206.69	43.16	8.63	2.19	9.55	247.35	978.38
37.	Miscellaneous expenditure covering CFA for Solar Thermal Systems (Rs. 53.30 crore-Solar Hot Water System and Rs. 10.40 crore on Solar Cooking, Box-type Cookers Systems, Solar Air-heating Systems, Solar Buidings and Aditya Solar Shops), R&D and Support and Administrative programmes, spread over all States & UTs.												740.31
	GRAND TOTAL:												1718.69

SHP: Small Hydro Power programme; VESP: Village Energy Security Test projects

Statement-II

State-wise details of achievements under various renewable energy programmes during 2002-07

A. Gird-Connected Renewable Power

Sl. No.	States/UT	Small Hydro Power (MW)	Wind Power (MW)	Bio Power		Solar Power (MWp)
				Biomass Power (MW)	Waste to Energy (MW)	
1	2	3	4	5	6	7
1.	Andhra Pradesh	28.14	29.30	211.05	25.75	0.03
2.	Arunachal Pradesh	13.14				
3.	Assam	0.11				
4.	Bihar	5.50				
5.	Chhattisgarh	17.85		102.30		
6.	Goa	–				
7.	Gujarat	–	455.20		0.50	
8.	Haryana	14.40		2.00		
9.	Himachal Pradesh	49.78				
10.	Jammu & Kashmir	18.59				
11.	Jharkhand					
12.	Karnataka	259.15	751.80	178.68		
13.	Kerala	28.60	0.00			
14.	Madhya Pradesh	12.20	34.10	1.00		
15.	Maharashtra	6.00	1087.40	51.50		
16.	Manipur	0.75				
17.	Meghalaya	0.01				
18.	Mizoram	2.73				
19.	Nagaland	0.80				
20.	Orissa	6.00				
21.	Punjab	20.70		21.00	1.00	0.23
22.	Rajasthan		453.70	23.30		0.10
23.	Sikkim	6.51				
24.	Tamil Nadu	15.80	2615.80	109.50	4.00	
25.	Tripura	0.00				
26.	Uttar Pradesh	3.60		83.50		
27.	Uttaranchal	17.52				0.05
28.	West Bengal	9.12				
29.	Andaman & Nicobar					
30.	Chandigarh					
31.	Dadar & Nagar Haveli					
32.	Damn & Diu					
33.	Delhi					0.35
34.	Lakshadweep					0.03
35.	Pondicherry					
	Others		0.00			
	TOTAL (MW)	537.00	5427.30	783.83	31.25	0.89

MW=Megawatt MWp= Megawatt peak

B. Off-grid/Decentralized Renewable Energy Systems/Devices:

Sl No.	States/UT	Biogas Plants	Energy Parks	Biomass Gasifiers	Waste to Energy Plants	Solar Photovoltaic Systems				SPV Pumps	Water Pumping Wind Mills	Aerogen/ Hybrid Systems	Solar Cookers	Remote Village Electrification Villages/ Hamlets
						SIS	HLS	SL	PP					
		(Nos.)	(Nos.)	(kW)	(MW)	No.	No.	No.	kWp	(Nos.)	(Nos.)	(kW)	(Nos)	(Nos)
1.	Andhra Pradesh	77069	14	497	13.00	524	609	1275	2.00	10	4		944	
2.	Arunachal Pradesh	624	4	1800		183	1580	5000	1.50	15				156
3.	Assam	298	5				3083							39
4.	Bihar	1083	6			250	1990			11	4			
5.	Chhattisgarh	22138	9	510		172	3416			56			86	235
6.	Goa	402				242	222			10		39.20		
7.	Gujarat	33796	6	3750		240	3366			42	367	10.00	67174	38
8.	Haryana	6080	9	633		2479	12983			201			7116	45
9.	Himachal Pradesh	1041	8			1600	6000						1851	1
10.	Jammu & Kashmir		1	400			6330	11761		21				117
11.	Jharkhand	694	10	180		485	3933							348
12.	Karnataka	47625	14	1924		270	4785			117	5	2.20		
13.	Kerala	12724	5	5						73			41	
14.	Madhya Pradesh	50959	12	1966		340	1148			9			352	30
15.	Maharashtra	47343	35	2150		103	104			39		403.45	1305	110
16.	Manipur	266	1				1000							134
17.	Meghalaya	727		250		100	4200	20000		14				2

18	Mizoram	752		200			1400							20
19	Nagaland	975		780										
20	Orissa	42605	2	200		154	1548			4			267	18
21	Punjab	9907	5			1271	1750			288				
22	Rajasthan	371	1	850		159	22087			15			78	129
23	Sikkim	1134	3			35	1495		2.00			10.00		13
24	Tamil Nadu	7945	32	3900		400				69	7		175	
25	Tripura	482	3	100			562			15				58
26	Uttar Pradesh	34352	39	3615	4.00	306	6200			517			9492	
27	Uttaranchal	2154	4			714	16061	29496		16			957	430
28	West Bengal	62708	2	10835		650	11625					18.00		833
29	Andaman & Nicobar													
30	Chandigarh													
31	Dadar & Nagar Haveli													
32	Daman & Diu													
33	Delhi		2							3				
34	Lakshadweep													
35	Pondicherry			600										
36	Others	98786	2				5289			28			6000	
	TOTAL	565040	234	35145	17.00	10677	122766	67532	5.50	1573	387	482.85	95838	2779

SLS - Street Lighting System, HLS-Home Lighting System, SL-Solar Lanterns, SPV - Solar Photovoltaic, MW-Mega Watt, kWp-kilowatt peak, PP-Power Plants.